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(54) Title: MONOCYCLOPENTADIENYL COMPLEXES

(57) Abstract: Monocyclopentadienyl complexes in which the cyclopentadienyl system bears at least one unsubstituted, substituted or fused, 5-membered heteroaromatic ring system bound via a specific bridge, a catalyst system comprising at least one of the monocyclopentadienyl complexes, the use of the catalyst system for the polymerization or copolymerization of olefins and a process for preparing polyolefins by polymerization or copolymerization of olefins in the presence of the catalyst system and polymers obtainable in this way.

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INTERNATIONAL SEARCH REPORT

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PCT/EP 03/13748

A. CLASSIFICATION OF SUBJECT MATTER

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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B01J C07F C08F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
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| X | WO 01/92346 A (UNION CARBIDE CHEM PLASTIC) 6 December 2001 (2001-12-06) cited in the application page 4, line 19 -page 5, line 29 | 1-11 |
| P,A | ARNDT, S. ET AL: "Alkyl Complexes of rare-earth metals that contain a furyl-functionalized cyclopentadienyl ligand: alkyl cation formation and unexpected ring-opening reaction of the furyl group" ORGANOMETALLICS, vol. 22, no. 4, 2003, pages 775-781, XP002277179 page 775 -page 776; examples 2A,3A | 1-7 |

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☒ Patent family members are listed in annex.

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